



## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

#### SEAJET 034 EMPEROR A

WHITE - BRIGHT RED - MID BLUE - DARK GREY

Product code: 634RRT - Version 1 - Date:04-08-2021

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

PT21 - Antifouling paint.

### 1.3. Details of the supplier of the safety data sheet

Chugoku Paints B.V., Sluisweg 12, 4794 SW Heijningen, Po Box 73, 4793 ZH Fijnaart, The Netherlands, Tel.+31-167-526100, E-mail: msdsregistration@cmpeurope.eu

### 1.4. Emergency telephone number

National Poisons Information Service: England & Wales / NHS dial 111, Scotland NHS 24, <http://www.npis.org>

N.Ireland, Contact your local GP or pharmacist during normal hours, [www.gpoutofhours.hscni.net](http://www.gpoutofhours.hscni.net) for GP services Out-of-Hours.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [CLP].

|                        |  |
|------------------------|--|
| Flam. Liq. 3 H226      | Flammable liquid and vapour.                                       |
| Skin Irrit. 2 H315     | Causes skin irritation.  |
| Eye Irrit. 2 H319      | Causes serious eye irritation.                                     |
| Skin Sens. 1 H317      | May cause an allergic skin reaction.                               |
| STOT SE 3 H335         | May cause respiratory irritation.                                  |
| STOT RE 2 H373         | May cause damage to organs through prolonged or repeated exposure. |
| Aquatic Acute 1 H400   | Very toxic to aquatic life.  |
| Aquatic Chronic 1 H410 | Very toxic to aquatic life with long lasting effects.              |

### 2.2. Label elements



GHS02



GHS07



GHS08



GHS09

Hazard pictogram(s):

Signal word: Warning

#### Labelling according to Regulation (EC) No 1272/2008 [CLP]:

##### Hazard statement(s):

|      |  |
|------|--|
| H226 | Flammable liquid and vapour.                                       |
| H315 | Causes skin irritation.  |
| H319 | Causes serious eye irritation.                                     |
| H317 | May cause an allergic skin reaction.                               |
| H335 | May cause respiratory irritation.                                  |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H410 | Very toxic to aquatic life with long lasting effects.              |

#### Supplemental hazard information (EU):

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

EUH032 Contact with acids liberates very toxic gas.

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**Precautionary statement(s)**

## Prevention:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P103: Read carefully and follow all instructions.

P260: Do not breathe vapours/spray.

P273: Avoid release to the environment.

P280: Wear protective gloves, protective clothing, eye protection, face protection.

## Response:

P391: Collect spillage.

## Storage &amp; Disposal:

P501: Dispose of contents, container to a hazardous or special waste collection point.

**Contains (EC 1272/2008 18.3(b)):**

Reaction mass of Ethylbenzene and Xylene.

Cuprous Thiocyanate.

Rosin.

Pyrethione zinc.

Extended details regarding health and environment, see Section 11 &amp; 12.

Children shall be kept away until treated surfaces are dry.

Application, maintenance and repair activities shall be conducted within a contained area, on impermeable hard standing with bunding or on soil covered with an impermeable material to prevent losses and minimise emissions to the environment, and that any losses or waste shall be collected for reuse or disposal.

**2.3. Other hazards**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

Substances presenting a health or environmental hazard within the meaning of Regulation (EC) No. 1272/2008, assigned a Community workplace exposure limit, classified as PBT/vPvB or included in the Candidate List. (\*) For full text of H-statements, see SECTION 16.

| Substance name  | Identification number  | % [weight] | Hazard statement Code(s) (*) / Hazard Class and Category Codes   |
|---|--|------------|--|
| Reaction Mass Of Ethylbenzene And Xylene.   | EG-nr: 905-588-0<br>CAS-nr: -<br>Index: -<br>Reach#: 01-2119488216-32                    | 20-25 %    | H226 - Flam. Liq. 3<br>H304 - Asp. Tox. 1<br>H312 - Acute Tox. 4<br>H315 - Skin Irrit. 2<br>H319 - Eye Irrit. 2<br>H332 - Acute Tox. 4<br>H335 - STOT SE 3<br>H373 - STOT RE 2<br>SCL / M-factor / ATE: H312-ATE 1100mg/kg bw, H332-ATE 29mg/l                         |
| Cuprous Thiocyanate.  | EG-nr: 214-183-1<br>CAS-nr: 1111-67-7<br>Index: 029-015-00-0<br>Reach#: -                | 20-25 %    | H400 - Aquatic Acute 1<br>H410 - Aquatic Chronic 1<br>EUH032<br>SCL / M-factor / ATE: - M(ac)=10 M(chr)=10   |
| Rosin.  | EG-nr: 232-475-7<br>CAS-nr: 8050-09-7<br>Index: 650-015-00-7<br>Reach#: 01-2119480418-32 | 10-15 %    | H317 - Skin Sens. 1  |
| Zinc Oxide.   | EG-nr: 215-222-5<br>CAS-nr: 1314-13-2<br>Index: 030-013-00-7<br>Reach#: 01-2119463881-32 | 1-5 %      | H400 - Aquatic Acute 1<br>H410 - Aquatic Chronic 1   |
| Hydrocarbons, C10, Aromatics, <1% Naphthalene.  | EG-nr: 918-811-1<br>CAS-nr: -<br>Index: -<br>Reach#: 01-2119463583-34                    | 1-5 %      | H304 - Asp. Tox. 1<br>H336 - STOT SE 3<br>H411 - Aquatic Chronic 2<br>EUH066   |
| 1-Methoxy-2-Propanol.   | EG-nr: 203-539-1<br>CAS-nr: 107-98-2<br>Index: 603-064-00-3<br>Reach#: 01-2119457435-35  | 1-5 %      | H226 - Flam. Liq. 3<br>H336 - STOT SE 3  |
| Reaction Mass Of 3-Methylphenyl Di-4-Methylphenyl Phosphate And 4-Methylphenyl Di-3-Methylphenyl Phosphate And Tris(3-Methylphenyl)Phosphate. | EG-nr: 809-930-9<br>CAS-nr: 1330-78-5<br>Index: -<br>Reach#: 01-2119531335-46            | 1-2 %      | H361fd(*)<br>H400 - Aquatic Acute 1<br>H410 - Aquatic Chronic 1  |
| Pyrithione Zinc.  | EG-nr: 236-671-3<br>CAS-nr: 13463-41-7<br>Index: -<br>Reach#: 01-2119511196-46           | 0,1-0,3 %  | H360D-(1B) - Repr.1B<br>H318 - Eye Dam. 1<br>H330 - Acute Tox. 2<br>H400 - Aquatic Acute 1<br>H301 - Acute Tox. 3<br>H410 - Aquatic Chronic 1<br>H372 - STOT RE 1<br>SCL / M-factor / ATE: H330-ATE 0.14 mg/L (Dust/Mist), H301-ATE 221mg/kg bw - M(ac)=1000 M(chr)=10 |

Contains Titaniumdioxide. ≥1%. (CAS 13463-67-7) The Annex VI classification of Titanium dioxide does not apply to this mixture according to its Note 10. (EU) 2020/217

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**SECTION 4: First aid measures****4.1. Description of first aid measures**

Pay attention to your own safety! In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.

**IF INHALED:**

Move to fresh air and keep at rest in a position comfortable for breathing. If symptoms: Call 112/ambulance for medical assistance. If no symptoms: Call a POISON CENTER or doctor.

**IF ON SKIN:**

Take off contaminated clothing and wash it before reuse. Wash skin with water. If skin irritation occurs: Get medical advice/attention.

**IF IN EYES:**

Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing for 5 minutes. Call a POISON CENTER or doctor.

**IF SWALLOWED:**

Rinse mouth. If conscious: Do NOT induce vomiting. Call a POISON CENTER or doctor.

**4.2. Most important symptoms and effects, both acute and delayed****Potential acute symptoms and effects****following inhalation:**

Exposure to vapours may cause a health hazard. Serious effects may be delayed following exposure.

May cause respiratory irritation.

**following skin contact:**

Causes skin irritation.

**following eye contact:**

Causes serious eye irritation.

**following ingestion:**

No known significant effects or critical hazards.

**Potential delayed symptoms and effects****following inhalation:**

No specific data.

**following skin contact:**

May cause an allergic skin reaction.

**following eye contact:**

Adverse symptoms may include the following: irritation, watering, redness

**following ingestion:**

No specific data.

**4.3. Indication of any immediate medical attention and special treatment needed****Notes to physician**

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**

No specific treatment.

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**SECTION 5: Firefighting measures****5.1. Extinguishing media**

Recommended: alcohol resistant foam, CO2, powders.

**Extinguishing media which must not be used for safety reasons:**

Water jet. Zinc dust containing products should not be extinguished with water.

**5.2. Special hazards arising from the substance or mixture**

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. See Section 10.

**5.3. Advice for firefighters**

There is no one clothing material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. Fire fighter's clothing conforming to European standard EN469 provides a basic level of protection for chemical incidents. Appropriate breathing apparatus may be required (Self-Contained Breathing Apparatus (SCBA)).

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel: Comply with company's emergency procedures. Exclude sources of ignition and ventilate the area. Use safety goggles or safety glasses, as well as any other appropriate personal protective equipment, at all times.

Avoid breathing vapours. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Refer to protective measures listed in Sections 7 and 8.

For emergency responders: See Section 8 for information on appropriate personal protective equipment. See also the information: "For non-emergency personnel".

**6.2. Environmental precautions**

Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

**6.3. Methods and material for containment and cleaning up**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Place in a suitable container. Clean preferably with a detergent - avoid use of solvents.

**6.4. Reference to other sections**

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. No sparking tools should be used. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Avoid skin and eye contact. Avoid the inhalation of particulates and spray mist arising from the application of this mixture. Avoid inhalation of dust from sanding. Smoking, eating and drinking should be prohibited in application area. For personal protection see Section 8. Never use pressure to empty: container is not a pressure vessel. Always keep in containers of same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or water courses. Isolate from sources of heat, sparks and open flame.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

**Information regarding fire and explosion hazard**

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in accordance with local regulations.

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**Notes on joint storage**

Store away from oxidising agents, from strongly alkaline and strongly acid materials.

**Additional information on storage conditions**



Observe label precautions. Store between 0°C and 40°C in a dry, well ventilated place away from sources of heat and direct sunlight. Keep container tightly closed. Keep away from sources of ignition. No smoking. Prevent unauthorised access.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**7.3. Specific end use(s)**

Application: Brush, Roller (See also Technical Data Sheet.) Spray: professional use only.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

| Limits for occupational exposure<br>and / or<br>biological limit values   |  |  |
|---|---|---|
|   | LIMIT VALUES TWA8h - STEL15<br>ppm-mg/m <sup>3</sup>                              | LIMIT VALUES TWA8h - STEL15<br>ppm-mg/m <sup>3</sup>                                |
| Reaction Mass Of Ethylbenzene And Xylene.   | TWA8h - ppm / - mg/m <sup>3</sup>   | TWA8h - ppm / - mg/m <sup>3</sup>   |
|   | STEL - ppm / - mg/m <sup>3</sup>  | STEL15 - ppm / - mg/m <sup>3</sup>  |
|   | Annotations -   | Notation -  |
| Cuprous Thiocyanate.  | TWA8h - ppm / 1 mg/m <sup>3</sup>   | TWA8h - ppm / - mg/m <sup>3</sup>   |
|   | STEL - ppm / 2 mg/m <sup>3</sup>  | STEL15 - ppm / - mg/m <sup>3</sup>  |
|   | Annotations -   | Notation -  |
| Rosin.  | TWA8h - ppm / - mg/m <sup>3</sup>   | TWA8h - ppm / - mg/m <sup>3</sup>   |
|   | STEL - ppm / - mg/m <sup>3</sup>  | STEL15 - ppm / - mg/m <sup>3</sup>  |
|   | Annotations -   | Notation -  |
| Zinc Oxide.   | TWA8h - ppm / - mg/m <sup>3</sup>   | TWA8h - ppm / - mg/m <sup>3</sup>   |
|   | STEL - ppm / - mg/m <sup>3</sup>  | STEL15 - ppm / - mg/m <sup>3</sup>  |
|   | Annotations -   | Notation -  |
| Hydrocarbons, C10, Aromatics, <1% Naphthalene.  | TWA8h - ppm / - mg/m <sup>3</sup>   | TWA8h - ppm / - mg/m <sup>3</sup>   |
|   | STEL - ppm / - mg/m <sup>3</sup>  | STEL15 - ppm / - mg/m <sup>3</sup>  |
|   | Annotations -   | Notation -  |
| 1-Methoxy-2-Propanol.   | TWA8h 100 ppm / 375 mg/m <sup>3</sup>   | TWA8h 100 ppm / 375 mg/m <sup>3</sup>   |
|   | STEL 150 ppm / 560 mg/m <sup>3</sup>  | STEL15 150 ppm / 568 mg/m <sup>3</sup>  |
|   | Annotations Sk  | Notation Skin   |
| Reaction Mass Of 3-Methylphenyl Di-4-Methylphenyl Phosphate And 4-Methylphenyl Di-3-Methylphenyl Phosphate And Tris(3-Methylphenyl)Phosphate. | TWA8h - ppm / - mg/m <sup>3</sup>   | TWA8h - ppm / - mg/m <sup>3</sup>   |
|   | STEL - ppm / - mg/m <sup>3</sup>  | STEL15 - ppm / - mg/m <sup>3</sup>  |
|   | Annotations -   | Notation -  |
| Pyrrhione Zinc.   | TWA8h - ppm / - mg/m <sup>3</sup>   | TWA8h - ppm / - mg/m <sup>3</sup>   |
|   | STEL - ppm / - mg/m <sup>3</sup>  | STEL15 - ppm / - mg/m <sup>3</sup>  |
|   | Annotations -   | Notation -  |

U.K. - TWA=Time Weighted Average (8hr) - STEL=Short-term exposure limit (15-minute reference period) - H.S.E. Health and Safety Commission.

Europe - TWA = Time Weight Average (8hr) - Measured or calculated in relation to a reference period of 8 hours time-weighted average (TWA) - STEL = Short-term exposure limit - A limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified - SCOEL

Annotations / Notations:

BMGVs: Biological monitoring guidance values.

Carc: Capable of causing cancer and/or heritable genetic damage.

Inh.: Inhalable fraction.

Resp.: Respirable fraction.

Sen: Capable of causing occupational asthma.

Sk: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.

Skin: A skin notation assigned to the occupational exposure limit value indicates the possibility of significant uptake through the skin.

**DNEL**

DNEL - Not available.

**PNEC**

PNEC - Not available.



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**8.2. Exposure controls****Appropriate engineering controls**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

**Individual protection measures, such as personal protective equipment****Personal Protection**Respiratory protection

If workers could be exposed to concentrations above the exposure limit they should use a respirator to EN 140, fitted with a filter suitable for both particulates and vapours to EN14387, with an assigned protection factor of at least 10 (e.g. A2P3).

Dry sanding, flame cutting and/or welding of the dry paint film may give rise to dust and/or hazardous fumes. Wet sanding should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. At repeated or prolonged contact; use gloves tested according to EN 374. Viton-gloves offer good protection for intense contact with most solvents, e.g. complete immersion in solvent.

Nitrile gloves offer good protection during spray application. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. The breakthrough time must be greater than the end use time of the product. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred. Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing. USE PE gloves as under gloves for difficult situations like for instance: high exposure, unknown composition or unknown properties of the chemicals.

**Gloves for repeated or prolonged exposure (Permeation breakthrough times > 480 min) - High Protection:**

| <b>Material:</b>         | <b>Minimum Thickness:</b> | <b>Chemical resistance:</b> |
|--------------------------|---------------------------|-----------------------------|
| Polyethylene (PE) Gloves | 0,062mm                   | High                        |
| PVA Gloves               | 0,2-0,3mm                 | High                        |

**Gloves for repeated or prolonged exposure (Permeation breakthrough times 240 - 480 min) - High Protection:**

| <b>Material:</b>         | <b>Minimum Thickness:</b> | <b>Chemical resistance:</b> |
|--------------------------|---------------------------|-----------------------------|
| Polyethylene (PE) Gloves | 0,062mm                   | High                        |
| PVA Gloves               | 0,2-0,3mm                 | High                        |
| Butyl Viton Gloves       | 0,70mm                    | High                        |

**Gloves for repeated or prolonged exposure (Permeation breakthrough times 120-240 min) - Medium Protection:**

| <b>Material:</b>         | <b>Minimum Thickness:</b> | <b>Chemical resistance:</b> |
|--------------------------|---------------------------|-----------------------------|
| Polyethylene (PE) Gloves | 0,062mm                   | High                        |
| PVA Gloves               | 0,2-0,3mm                 | High                        |
| Butyl Viton Gloves       | 0,70mm                    | High                        |

**Gloves for repeated or prolonged exposure (Permeation breakthrough times 60 - 120 min) - Medium Protection:**

| <b>Material:</b>         | <b>Minimum Thickness:</b> | <b>Chemical resistance:</b> |
|--------------------------|---------------------------|-----------------------------|
| Polyethylene (PE) Gloves | 0,062mm                   | High                        |
| PVA Gloves               | 0,2-0,3mm                 | High                        |
| Butyl Viton Gloves       | 0,70mm                    | High                        |

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| <b>Gloves for short term exposure / splash protection (Permeation breakthrough times 30 - 60 min):</b> |                             |                             |
|--|-----------------------------|-----------------------------|
| <b>Material:</b>   | <b>Minimum Thickness:</b>   | <b>Chemical resistance:</b> |
| Polyethylene (PE) Gloves   | 0,062mm                     | High                        |
| PVA Gloves   | 0,2-0,3mm                   | High                        |
| Butyl Viton Gloves   | 0,70mm                      | High                        |
| Nitrile Gloves   | 0,31mm                      | High                        |
| <b>Gloves for short term exposure / splash protection (Permeation breakthrough times 10 - 30 min):</b> |                             |                             |
| <b>Material:</b>   | <b>Minimum Thickness:</b>   | <b>Chemical resistance:</b> |
| Polyethylene (PE) Gloves   | 0,062mm                     | High                        |
| PVA Gloves   | 0,2-0,3mm                   | High                        |
| Butyl Viton Gloves   | 0,70mm                      | High                        |
| Neoprene Gloves  | <0,4mm                      | High                        |
| Nitrile Gloves   | 0,175mm                     | High                        |
| <b>Non suitable Gloves - non exhaustive list (Permeation breakthrough times &lt; 10 min):</b>          |                             |                             |
| <b>Material:</b>   | <b>Thickness (or less):</b> |                             |
| Natural Rubber Gloves  | 0,75mm                      |                             |
| Nitrile Gloves   | -                           |                             |
| Neoprene Gloves  | 0,75mm                      |                             |
| Butyl Gloves   | 0,50mm                      |                             |

Eye/face protection

Use safety eyewear tested according to EN 166 designed to protect against splash of liquids.

Skin protection

Personnel should wear anti-static clothing made of natural fibre or of high temperature resistant synthetic fibre.

Environmental exposure controls

Do not allow to enter drains or water courses.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****(a) Physical state**

Liquid

**(b) Colour**

Diverse.

**(c) Odour**

Typical aromatic odour.

**(d) Melting point/freezing point**

Not applicable due to nature of the product.

**(e) Boiling point or initial boiling point and boiling range**

Not applicable due to nature of the product. Lowest Boiling Point: 1-methoxy-2-propanol. - 117°C

**(f) Flammability**

Vapours are ignitable. See Flash point (h).

**(g) Lower and upper explosion limit**

The product itself is not explosive, but the formation of an explosive mixture of vapour or dust with air is possible.

|   |                 |
|---|-----------------|
| Reaction Mass Of Ethylbenzene And Xylene. | 1.0-7.0%        |
| Cuprous Thiocyanate.                      | Not applicable. |
| Rosin.                                    | Not applicable. |
| Zinc Oxide.                               | Not applicable. |



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**(g) Lower and upper explosion limit**

Hydrocarbons, C10, Aromatics, &lt;1% Naphthalene.

Not available.

1-Methoxy-2-Propanol.

1.9-13.1%

Reaction Mass Of 3-Methylphenyl Di-4-Methylphenyl Phosphate And 4-Methylphenyl Di-3-Methylphenyl Phosphate And Tris(3-Methylphenyl)Phosphate.

Not available.

Pyrithione Zinc.

Not applicable.

**(h) Flash point**

25°C - Method: ISO13736:2021

**(i) Auto-ignition temperature**

Not applicable due to nature of the product.

Lowest auto ignition temperature: 1-methoxy-2-propanol. - 287°C

**(j) Decomposition temperature**

Not applicable due to nature of the product.

**(k) pH**

Not applicable due to nature of the product. Mixture is non-soluble (in water).

**(l) Kinematic viscosity**

272 mm²/s @40°C - Method: ISO3219

Non-Newtonian liquid - thixotropic behaviour.

**(m) Solubility**

Not Soluble (in water).

**(n) Partition coefficient n-octanol/water (log value)**

Not applicable due to nature of the product.

**(o) Vapour pressure**

Reaction Mass Of Ethylbenzene And Xylene.

8.21 mbar

Cuprous Thiocyanate.

Not available.

Rosin.

0,6kPa

Zinc Oxide.

Not applicable.

Hydrocarbons, C10, Aromatics, &lt;1% Naphthalene.

1 Kpa

1-Methoxy-2-Propanol.

11.6 mbar

Reaction Mass Of 3-Methylphenyl Di-4-Methylphenyl Phosphate And 4-Methylphenyl Di-3-Methylphenyl Phosphate And Tris(3-Methylphenyl)Phosphate.

0.00195 Pa

Pyrithione Zinc.

Not available.

**(p) Density and/or relative density**

Relative density 1,46-1,50 @ 20°C - Method: ASTM D1475-98

**(q) Relative vapour density**

1-2 @ 20°C - Method: Calculated.

**(r) Particle characteristics**

Not applicable due to nature of the product.

**9.2. Other information**

Information with regard to physical hazard classes

No relevant information.

Other safety characteristics

No relevant information.

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**SECTION 10: Stability and reactivity****10.1. Reactivity**

No specific test data related to reactivity available for this product or its ingredients.

**10.2. Chemical stability**

Stable under recommended storage and handling conditions (see Section 7).

**10.3. Possibility of hazardous reactions**

In combination with oxidizing agents, strongly alkaline and strongly acid materials, exothermic reactions and/or explosive reactions may occur or toxic vapours may arise.

**10.4. Conditions to avoid**

When exposed to high temperatures may produce hazardous decomposition products.

**10.5. Incompatible materials**

Keep away from oxidising agents, strongly alkaline and strongly acid materials.

**10.6. Hazardous decomposition products**

Carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

**SECTION 11: Toxicological information**

There are no data available on the mixture itself.

The mixture has been assessed following the additivity method of the CLP Regulation (EC) No 1272/2008 and classified for toxicological hazards accordingly. See Sections 2 and 3 for details.

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Ingestion may cause nausea, diarrhoea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact

**Substance name**

Reaction Mass Of Ethylbenzene And Xylene. - LD50 Oral - >2000 mg/kg, Rat - LD50 Dermal - >2000 mg/kg, Rat - LC50 Inhalation - 29 mg/lRat,4h

Cuprous Thiocyanate. - LD50 Oral - >5000mg/kg, Rat - LD50 Dermal - >2000mg/kg, Rat - LC50 Inhalation - Not available.

Rosin. - LD50 Oral - Not available. - LD50 Dermal - Not available. - LC50 Inhalation - Not available.

Zinc Oxide. - LD50 Oral - >5000 mg/kg, Rat - LD50 Dermal - Not available. - LC50 Inhalation - >5700 mg/m3Rat,4h

Hydrocarbons, C10, Aromatics, <1% Naphthalene. - LD50 Oral - Not available. - LD50 Dermal - Not available. - LC50 Inhalation - Not available.

1-Methoxy-2-Propanol. - LD50 Oral - 4016 mg/kg, Rat - LD50 Dermal - >13300 mg/kg, Rabbit - LC50 Inhalation - 54,6 mg/lRat,4h

Reaction Mass Of 3-Methylphenyl Di-4-Methylphenyl Phosphate And 4-Methylphenyl Di-3-Methylphenyl Phosphate And Tris(3-Methylphenyl)Phosphate. - LD50 Oral - >2000mg/kg, Rat - LD50 Dermal - >2000mg/kg, Rat - LC50 Inhalation - >11,1mg/lRat,1h

Pyrrithione Zinc. - LD50 Oral - 269 mg/kg, Rat - LD50 Dermal - >2000 mg/kg, Rat - LC50 Inhalation - 1,03 mg/lRat,4h

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**Conclusion/Summary on mixture****Acute toxicity:**

ATEmix (oral) : No specific data.  
ATEmix (Dermal) : No specific data.  
ATEmix (Inhalation) : No specific data.

**Skin corrosion/irritation:**

Conclusion/Summary on mixture: Causes skin irritation.

Method: Additivity approach, No testdata available.

**Serious eye damage/irritation:**

Conclusion/Summary on mixture: Causes serious eye irritation.

Method: Additivity approach, no testdata available.

**Respiratory or skin sensitisation:**

Conclusion/Summary on mixture

Respiratory sensitization Based on available data, the classification criteria are not met. Justification: Concentration limit, No testdata available.

Skin sensitization May cause an allergic skin reaction. Method: Concentration Limit, no testdata available.

**Germ cell mutagenicity:**

Conclusion/Summary on mixture: Based on available data, the classification criteria are not met. Justification: Concentration limit, No testdata available.

**Carcinogenicity:**

Conclusion/Summary on mixture: Based on available data, the classification criteria are not met. Justification: Concentration limit, No testdata available.

**Reproductive toxicity:**

Conclusion/Summary on mixture: Based on available data, the classification criteria are not met. Justification: Concentration limit, No testdata available.

**STOT - single exposure:**

Conclusion/Summary on mixture: Based on available data, the classification criteria are not met. Justification: Concentration limit, No testdata available.

**STOT - repeated exposure:**

Conclusion/Summary on mixture: May cause damage to organs through prolonged or repeated exposure. Method: Concentration Limit, no testdata available.

**Aspiration hazard:**

Conclusion/Summary on mixture: Based on available data, the classification criteria are not met.

Justification: Additivity approach / Kinematic viscosity: 272 mm<sup>2</sup>/s @40°C - Measured

**Information on likely routes of exposure**

Inhalation: Exposure to vapours may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion: No specific data.

Skin exposure: Causes skin irritation. May cause an allergic skin reaction.

Eye exposure: Causes serious eye irritation.

**Symptoms related to the physical, chemical and toxicological characteristics**

Inhalation: Adverse symptoms may include the following: Cough

Ingestion: No specific data.

Skin exposure: Adverse symptoms may include the following: irritation, redness.

Eye exposure: Adverse symptoms may include the following: irritation, watering, redness.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Short term exposure:**

Potential immediate effects: No specific data.

Potential delayed effects: No specific data.

**Long term exposure:**

Potential immediate effects: No specific data.

Potential delayed effects: No specific data.

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**Potential chronic health effects:****Conclusion/Summary on mixture**

|                        |   |
|------------------------|---|
| General:               | Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
| Carcinogenicity:       | No known significant effects or critical hazards.   |
| Mutagenicity:          | No known significant effects or critical hazards.   |
| Teratogenicity:        | No known significant effects or critical hazards.   |
| Developmental effects: | No known significant effects or critical hazards.   |
| Fertility effects:     | No known significant effects or critical hazards.   |
| Other information:     | No relevant information.  |

Contains Rosin. May produce an allergic reaction.

**11.2 Information on other hazards****Endocrine disrupting properties**

No relevant information.

**Other information**

No relevant information.

**SECTION 12: Ecological information**

There are no data available on the mixture itself. Do not allow to enter drains or water courses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and classified for eco-toxicological hazards accordingly.

**12.1. Toxicity****Substance name - Species - Exposure - Results**

Reaction Mass Of Ethylbenzene And Xylene. Acute (short-term) toxicity: Fish: LC50/96h - 2.6 mg/l, Crustacea: EC50/48h 1-10 mg/l (Daphnia magna), Algae/aquatic plants: EC50/72h 2.2 mg/L (Pseudokirchneriella subcapitata), Other organisms: Not available. Chronic (long-term) toxicity: Fish: NOEC >1.3 mg/L (Salmo gairdneri), Crustacea: NOEC 0.96mg/L, Algae/aquatic plants: NOEC 0.44mg/L, Other organisms: Not available.

Cuprous Thiocyanate. Acute (short-term) toxicity: Fish: Not available., Crustacea: EC50/48h 0.0203 ppm (Daphnia magna), Algae/aquatic plants: EC50/72h 0.06 mg/L (Chlorella vulgaris), Other organisms: Not available. Chronic (long-term) toxicity: Fish: Not available., Crustacea: Not available., Algae/aquatic plants: Not available., Other organisms: Not available.

Rosin. Acute (short-term) toxicity: Fish: Not available., Crustacea: Not available., Algae/aquatic plants: Not available., Other organisms: Not available. Chronic (long-term) toxicity: Fish: Not available., Crustacea: Not available., Algae/aquatic plants: Not available., Other organisms: Not available.

Zinc Oxide. Acute (short-term) toxicity: Fish: LC50 0,169 mg Zn/l (Oncorhynchus Mykiss), Crustacea: EC50/48h - 0.413 mg/l (Ceriodaphnia dubia), Algae/aquatic plants: EC50/72h - 0,137 mg/l (Selenastrum Capricornutum), Other organisms: Not available. Chronic (long-term) toxicity: Fish: NOEC 0.025 mg Zn/l, Crustacea: NOEC 82 ug/l, Algae/aquatic plants: NOEC 19 ug/l (Pseudokirchneriella subcapitata), Other organisms: Not available.

Hydrocarbons, C10, Aromatics, <1% Naphthalene. Acute (short-term) toxicity: Fish: LC50/96h >=2<=5 mg/l (Oncorhynchus mykiss), Crustacea: EC50/48h >=3<=10 mg/l (Daphnia magna), Algae/aquatic plants: EC50/72h 11 mg/l (Pseudokirchneriella Subcapitata), Other organisms: Not available. Chronic (long-term) toxicity: Fish: NOELR 0.441 mg/L, Crustacea: NOELR 0.771 mg/L, Algae/aquatic plants: Not available., Other organisms: Not available.

1-Methoxy-2-Propanol. Acute (short-term) toxicity: Fish: LC50/96h 6812 mg/l (Leuciscus Idus), Crustacea: EC50/48h 23300 mg/l (Daphnia magna), Algae/aquatic plants: EC50/7d >1000 mg/L (Pseudokirchneriella subcapitata), Other organisms: Not available. Chronic (long-term) toxicity: Fish: Not available., Crustacea: Not available., Algae/aquatic plants: Not available., Other organisms: Not available.

Reaction Mass Of 3-Methylphenyl Di-4-Methylphenyl Phosphate And 4-Methylphenyl Di-3-Methylphenyl Phosphate And Tris(3-Methylphenyl)Phosphate. Acute (short-term) toxicity: Fish: LC50/96h 0,6mg/l (Oncorhynchus mykiss), Crustacea: EC50/48h 0,146mg/l (Daphnia magna), Algae/aquatic plants: EC50/72h 0,4042mg/l (Desmodesmus subspicatus), Other organisms: Not available. Chronic (long-term) toxicity: Fish: NOEC 0,01mg/l (Jordanella floridae), Crustacea: NOEC 0,1 mg/L (Daphnia magna), Algae/aquatic plants: NOEC 0,016mg/l (Desmodesmus subspicatus), Other organisms: Not available.

Pyrithione Zinc. Acute (short-term) toxicity: Fish: LC50 /96h - 0,0026 mg/l (Pimephales promelas), Crustacea: EC50/48h - 0,0082 mg/L (Daphnia magna), Algae/aquatic plants: EC50/120h - 0,0012 mg/l (Skeletonema costatum), Other organisms: Not available. Chronic (long-term) toxicity: Fish: Not available., Crustacea: Not available., Algae/aquatic plants: Not available., Other organisms: Not available.

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**12.2. Persistence and degradability****Substance name**

Reaction Mass Of Ethylbenzene And Xylene. - Readily biodegradable.

Cuprous Thiocyanate. - Readily biodegradable.

Rosin. - Readily biodegradable.

Zinc Oxide. - Readily biodegradable.

Hydrocarbons, C10, Aromatics, &lt;1% Naphthalene. - Inherently biodegradable.

1-Methoxy-2-Propanol. - Readily biodegradable.

Reaction Mass Of 3-Methylphenyl Di-4-Methylphenyl Phosphate And 4-Methylphenyl Di-3-Methylphenyl Phosphate And Tris(3-Methylphenyl)Phosphate. - Readily biodegradable.

Pyrethrin Zinc. - Inherently biodegradable.

**12.3. Bioaccumulative potential****Substance name****log Kow****BCF**

Reaction Mass Of Ethylbenzene And Xylene.

3.1

25.9

Cuprous Thiocyanate.

Kp 2120l/kg

Not available.

Rosin.

Not available.

&lt;25-130

Zinc Oxide.

Not available.

Not available.

Hydrocarbons, C10, Aromatics, &lt;1% Naphthalene.

Not available.

Not available.

1-Methoxy-2-Propanol.

-0.43

Not available.

Reaction Mass Of 3-Methylphenyl Di-4-Methylphenyl Phosphate And 4-Methylphenyl Di-3-Methylphenyl Phosphate And Tris(3-Methylphenyl)Phosphate.

5.93

800 L/kg ww

Pyrethrin Zinc.

0.93

1.4

**12.4. Mobility in soil**

Soil/water partition coefficient (KOC)

: Not available.

Mobility

: No relevant information.

**12.5. Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6. Endocrine disrupting properties**

No relevant information.

**12.7. Other adverse effects**

No relevant information.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Product / Packaging disposal: Dispose of containers contaminated by the product in accordance with local or national legal provisions. The European Waste Catalogue (2014/955/EC) classification of this product. Waste codes / waste designations according to LoW: 07 04 99 Wastes not otherwise specified. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information contact your local waste authority. Waste should not be disposed of by release to sewers. Using information provided in this safety data sheet, advice should be obtained from the local waste authority on the classification of empty containers.






Containers which are not properly cleaned may contain (highly) flammable or explosive vapours.

Special precautions: Use appropriate protective equipment for the removal and / or disposal of this product.

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**SECTION 14: Transport information**

|                                  | ADR / RID / ADN  | IMDG-Code  | IATA  |
|----------------------------------|--|--|---|
| 14.1. UN number or ID number     | UN 1263  | UN 1263  | UN 1263   |
| 14.2. UN                         |  |  |   |
|                                  | PAINT  | PAINT  | PAINT   |
| 14.3. Transport hazard class(es) | 3  | 3  | 3   |
| Label(s)                         |   |    |  |
| 14.4. Packing group              | III  | III  | III   |
| 14.5. Environmental hazards      | Yes<br>Environmental hazardous substances (aquatic environment)<br> | Yes<br>Marine Pollutant: Yes<br><br>Marine Pollutant substance(s): Cuprous Thiocyanate., Reaction mass of 3-Methylphenyl di-4-methylphenyl Phosphate and 4-Methylphenyl di-3-methylphenyl Phosphate and tris(3-methylphenyl)phosphate. | No  |
| Additional information           | Hazard Identification Number No.:<br>30  | Emergency Schedule Number (EmS): F-E, S-E  |   |

**14.6. Special precautions for user**

Transport within the user's premises:

Always transport in closed containers that are upright and secure.

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7. Maritime transport in bulk according to IMO instruments**

Not applicable.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

The information in this Safety Data Sheet is required pursuant to Annex II to regulation (EC) No 1907/2006 and its amendments.

The provisions of the Health and Safety at Work etc. Act [and the Control of Substances Hazardous to Health Regulations] apply to the use of this product at work.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.



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Seveso category (DIRECTIVE 2012/18/EU): P5c - E1 This product may add to the calculation for determining whether a site is within scope of the Seveso Directive on major accident hazards.

\* Active substance: Cuprous Thiocyanate. / CAS 1111-67-7  
Pyrrithione Zinc. / CAS 13463-41-7

227g/kg.  
2g/kg.

\* Note: Values given are based on theoretical calculations. Actual values could differ.

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

**SECTION 16: Other information****Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008****[CLP]:**

|      |                     |
|------|---------------------|
| H226 | Measured            |
| H315 | Additivity approach |
| H319 | Additivity approach |
| H317 | Concentration limit |
| H335 | Additivity approach |
| H373 | Concentration limit |
| H400 | Summation method    |
| H410 | Summation method    |

**Abbreviations and acronyms:**

|           |   |
|-----------|---|
| ADN       | : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR       | : European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE       | : Acute Toxicity Estimate   |
| BCF       | : Bioconcentration factor   |
| CLP       | : Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                     |
| DNEL      | : Derived No Effect Level   |
| IATA      | : International Air Transport Association   |
| IMDG-Code | : International Maritime Dangerous Goods  |
| Kow       | : octanol-water partition coefficient   |
| LC50      | : Lethal Concentration to 50 % of a test population   |
| LD50      | : Lethal Dose to 50% of a test population (Median Lethal Dose)                                    |
| PBT       | : Persistent, Bioaccumulative and Toxic substance   |
| PNEC      | : Predicted No Effect Concentration(s)  |
| RID       | : Regulations concerning the International Carriage of Dangerous Goods by Rail                    |
| STOT      | : Specific Target Organ Toxicity  |
| vPvB      | : Very Persistent and Very Bioaccumulative  |

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**Full text of Hazard Statements appearing in Section 3.2.:**

|           |  |
|-----------|--|
| EUH032    | Contact with acids liberates very toxic gas.                       |
| EUH066    | Repeated exposure may cause skin dryness or cracking.              |
| H226      | Flammable liquid and vapour.                                       |
| H301      | Toxic if swallowed.  |
| H304      | May be fatal if swallowed and enters airways.                      |
| H312      | Harmful in contact with skin.                                      |
| H315      | Causes skin irritation.  |
| H317      | May cause an allergic skin reaction.                               |
| H318      | Causes serious eye damage.   |
| H319      | Causes serious eye irritation.                                     |
| H330      | Fatal if inhaled.  |
| H332      | Harmful if inhaled.  |
| H335      | May cause respiratory irritation.                                  |
| H336      | May cause drowsiness or dizziness.                                 |
| H360Df    | May damage the unborn child. Suspected of damaging fertility.      |
| H361fd(*) | Suspected of damaging fertility or the unborn child if swallowed.  |
| H372      | Causes damage to organs through prolonged or repeated exposure.    |
| H373      | May cause damage to organs through prolonged or repeated exposure. |
| H400      | Very toxic to aquatic life.  |
| H410      | Very toxic to aquatic life with long lasting effects.              |
| H411      | Toxic to aquatic life with long lasting effects.                   |

This product does not contain organotin compounds acting as biocides and complies with the "International convention on the control of harmful Anti-fouling systems on ships as adopted by IMO in october 2001 (IMO document AFS/CONF/26)". The information of this SDS is based on the present state of our knowledge and on current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.